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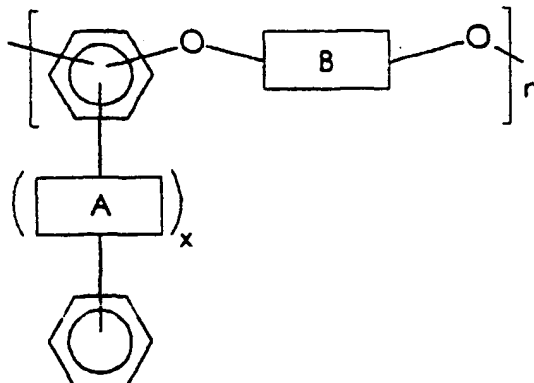
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(54) Aqueous developable high performance curable polymers

(57) Disclosed is a composition which comprises a polymer containing at least some monomer repeat units with water-solubility- or water-dispersability-imparting substituents and at least some monomer repeat units with photosensitivity-imparting substituents which enable crosslinking or chain extension of the polymer upon exposure to actinic radiation, said polymer being of the formula



or

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wherein x is an integer of 0 or 1, A and B are specified groups, and n is an integer representing the number of repeating monomer units. In one embodiment, a single functional group imparts both photosensitivity and water solubility or dispersability to the polymer. In another embodiment, a first functional group imparts photosensitivity to the polymer and a second functional group imparts water solubility or dispersability to the polymer. Also disclosed is a process for preparing a thermal ink jet printhead with the aforementioned polymers.



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EUROPEAN SEARCH REPORT

Application Number
EP 97 30 6209

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 663 411 A (NIPPON KAYAKU KABUSHIKI KAISHA) * page 13; examples 1-3; table 1 * * claims *	1-3,6	G03F7/038 B41J2/16
X	--- PATENT ABSTRACTS OF JAPAN vol. 010, no. 254 (P-492), 30 August 1986 & JP 61 080242 A (MATSUSHITA ELECTRIC IND CO LTD), 23 April 1986, * abstract *	1-3,6	
A	--- EP 0 452 110 A (MINNESOTA MINING AND MANUFACTURING COMPANY) * page 3, line 30 - line 48 *	1-8	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G03F B41J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24 April 1998	Examiner Dupart, J.-M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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